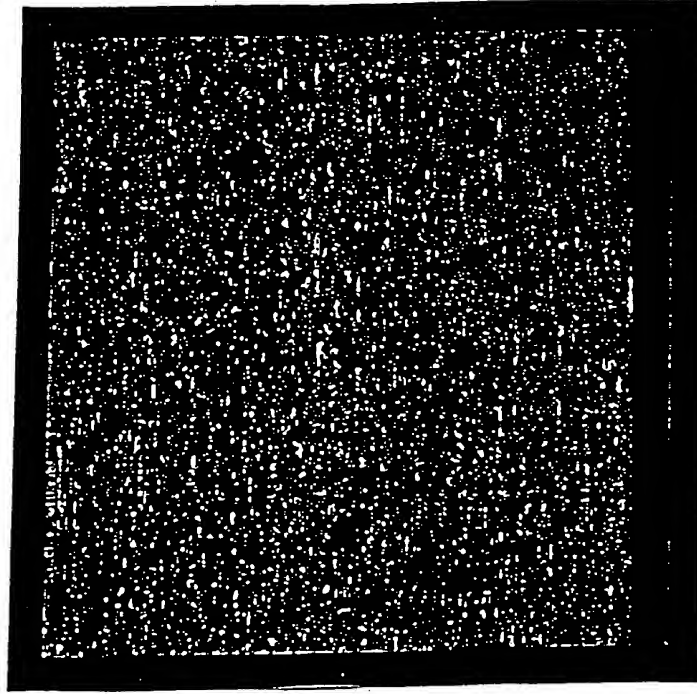


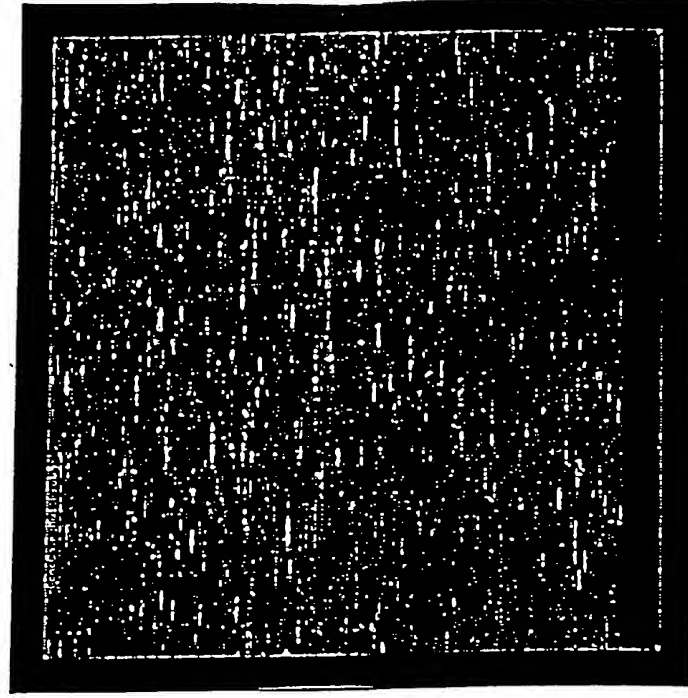
006080" 25412960

Gene Expression in Main Olfactory Epithelium

Gene Expression in Single Olfactory Sensory Neuron



Murine 11KsubA
P% = 35%

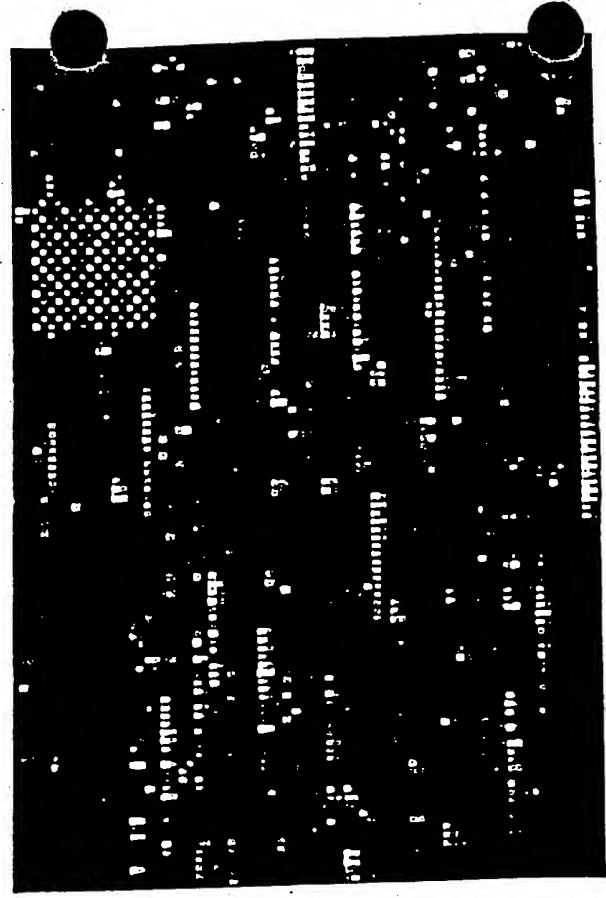
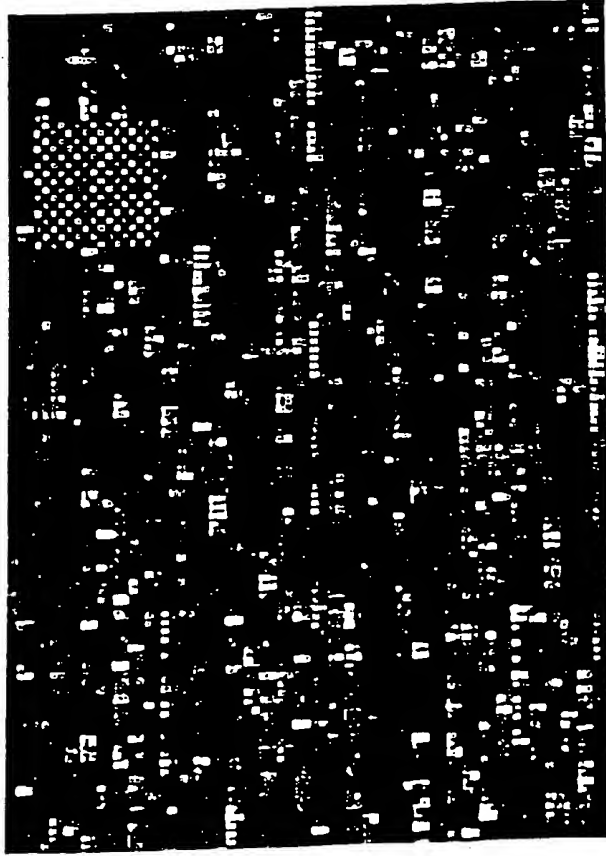


Murine 11KsubA
P% = 18%

FIG. 1

Gene Expression in Main Olfactory Epithelium

Gene Expression in Single Olfactory Sensory Neuron



Murine 11KsubA
P% = 35%

Murine 11KsubA
P% = 18%

FIG. 2

005030" 2547E960

Signature Molecules Expressed In Retina



Msa.2208 PDE



L36860 GCAP



X66196 Recoverin



M55171 Rhodopsin



Msa.1247.0 Transducin



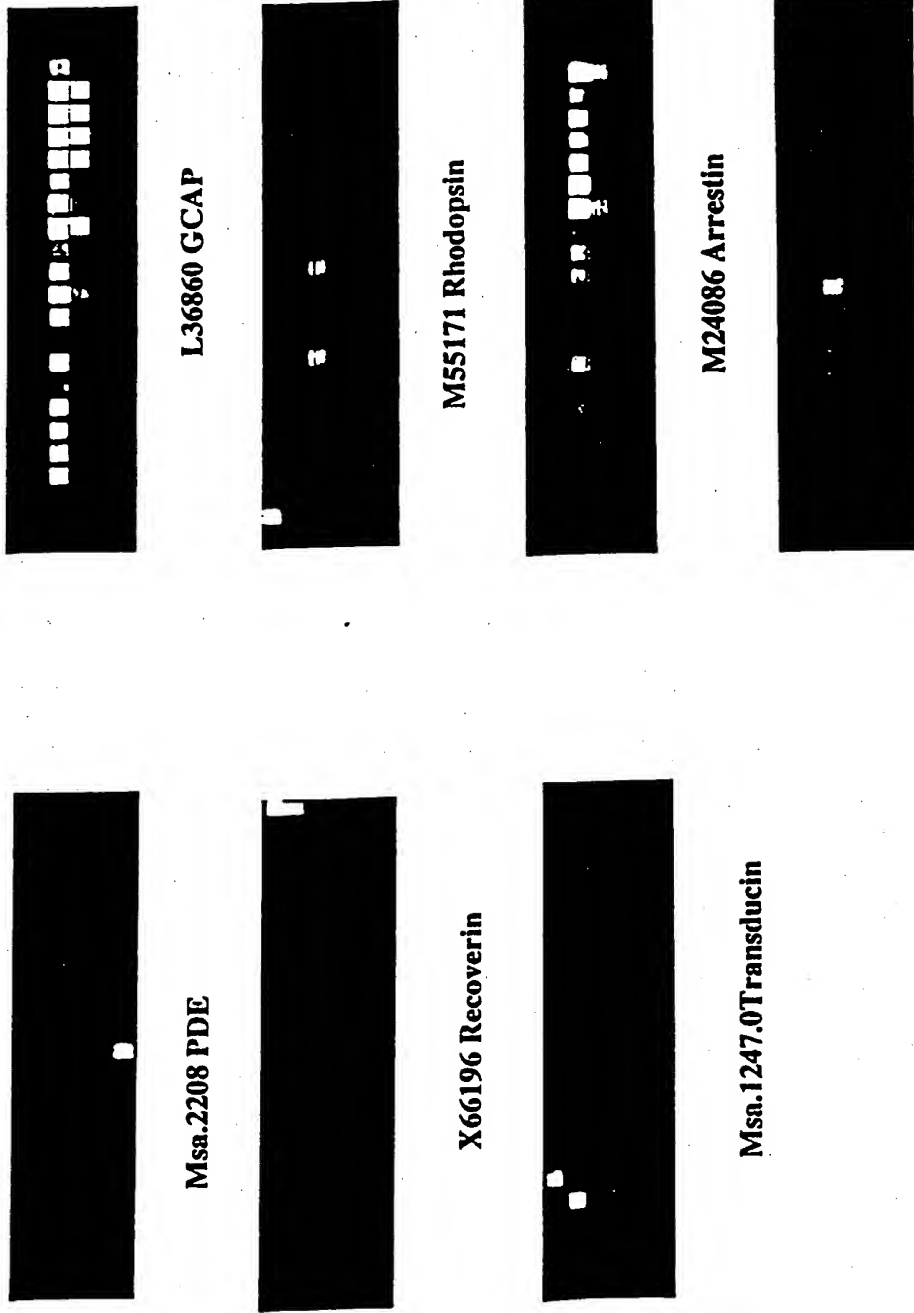
M24086 Arrestin



AF000149 ABCR

FIG. 3

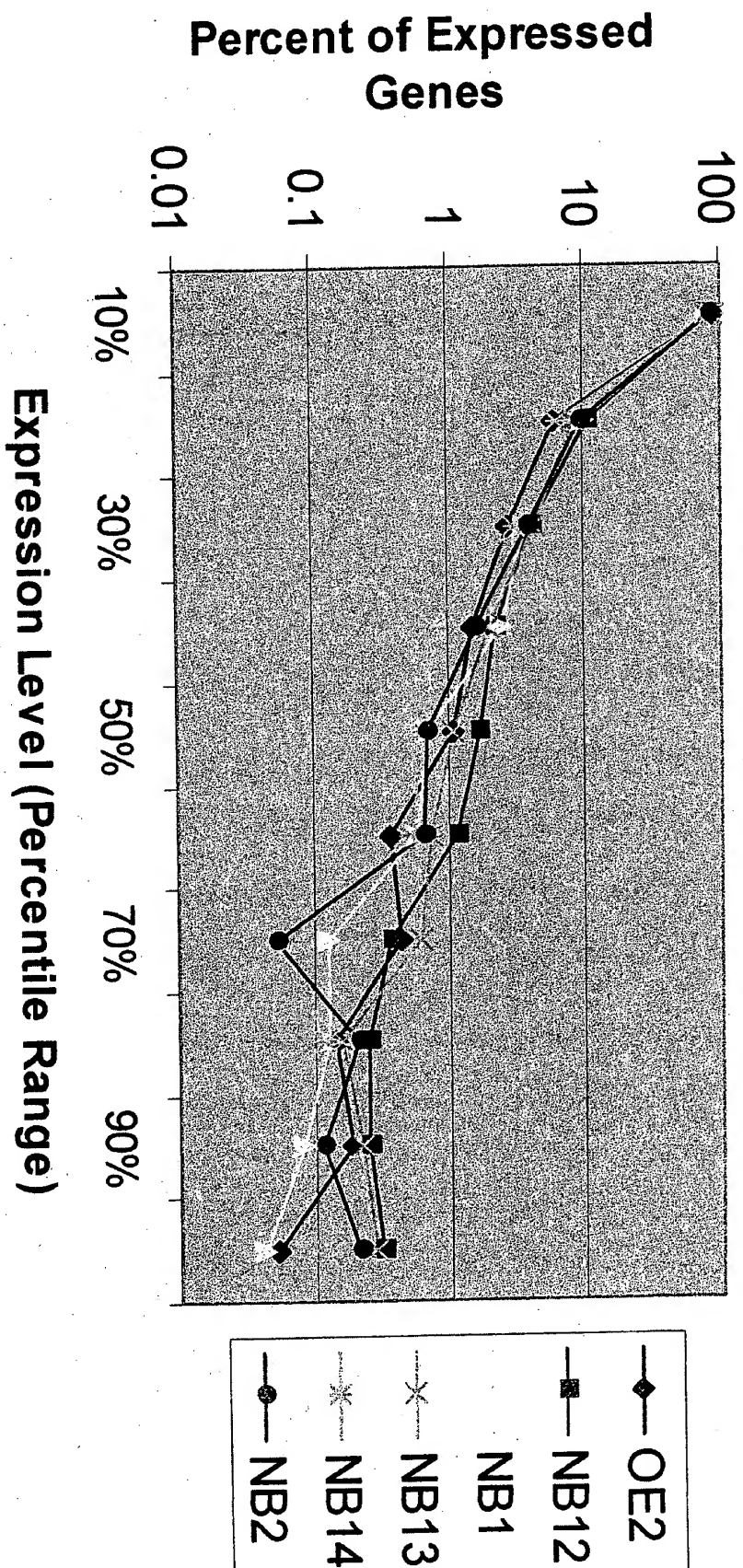
Signature Molecules Expressed In A Photoreceptor Cell



AF000149 ABCR

FIG. 4

Expression Profiles in Olfactory Epithelium and Single Olfactory Neurons



Correlation of Gene Expression Profiles by Southern Blot and Microarray Hybridization

Gene	NB7	NB9	NB2	NB1	NB13	NB3	NB8	NB12	NB6
PGNA	++	++	++	++	+				
GAP-32			+	+	+		+		
RGS-v				++					
Son-11				++	++	++	++	++	++
OMP	++	++	++	++	++	++	++	++	++

Southern Blot

Probe Set	Gene	NB7	NB9	NB2	NB1	NB13	NB3	NB8	NB12	NB6
X53068_s_at	PGNA	-197 A	-184 A	330 P	1053 P	45 A	-15 A	9 A	-14 A	-3 A
J02809_s_at	GAP-32	19 A	-52 A	24 A	11 A	13348 P	-215 A	-10 A	1 A	-236 A
C78048_rc_at	RGS-v	37 A	-26 A	-35 A	1036 P	-17 A	-58 A	7801 P	185 A	-21 A
AF009414_g_at	Son-11	-114 A	170 A	-181 A	-172 A	259 A	-415 A	-45 A	277 P	-43 A
Msa.245.0_at	OMP								250 A	332 A

Microarray

FIG. 6

006080" 254E960

M N S E V T

	IL-11	IL-6	IL-9	IL-11	MOE6	NB2	NB7	NB8	2NB3	2NB9	NB10	2NB6	2NB10	1E4	1E6	4E7	SC16	SC26	MOE1	MOE2	HEART
L-11	1	0.66	0.68	0.69	0.71	0.53	0.57	0.63	0.5	0.49	0.4	0.51	0.53	0.1	0.15	0.33	0.57	0.16	0.42	0.48	0.24
IL-6		1	0.69	0.68	0.75	0.46	0.58	0.56	0.46	0.51	0.38	0.5	0.45	0.11	0.15	0.32	0.58	0.16	0.39	0.45	0.24
IL-9			1	0.67	0.73	0.46	0.55	0.55	0.46	0.5	0.37	0.51	0.47	0.12	0.18	0.36	0.64	0.66	0.4	0.45	0.24
IL-11				1	0.7	0.5	0.57	0.61	0.51	0.47	0.44	0.54	0.54	0.12	0.16	0.32	0.6	0.63	0.39	0.47	0.22
MOE6					1	0.47	0.55	0.59	0.49	0.51	0.39	0.53	0.47	0.12	0.17	0.35	0.65	0.64	0.4	0.44	0.24
NB2						1	0.56	0.52	0.49	0.42	0.49	0.51	0.46	0.13	0.18	0.43	0.49	0.49	0.4	0.43	0.19
NB7							1	0.59	0.52	0.54	0.46	0.44	0.42	0.23	0.24	0.38	0.55	0.52	0.45	0.46	0.24
NB8								1	0.48	0.45	0.42	0.44	0.4	0.15	0.19	0.33	0.57	0.5	0.36	0.41	0.2
2NB3									1	0.56	0.38	0.48	0.42	0.26	0.24	0.35	0.47	0.48	0.37	0.41	0.18
2NB9										1	0.33	0.4	0.38	0.26	0.24	0.36	0.44	0.46	0.35	0.37	0.17
NB10											1	0.5	0.58	0.2	0.23	0.3	0.4	0.38	0.37	0.42	0.19
2NB6												1	0.56	0.18	0.23	0.33	0.51	0.51	0.33	0.39	0.18
2NB10													1	0.18	0.2	0.3	0.48	0.43	0.38	0.45	0.21
1E4														1	0.54	0.23	0.14	0.13	0.17	0.13	0.06
1E6															1	0.24	0.14	0.16	0.22	0.17	0.07
4E7																1	0.3	0.33	0.33	0.32	0.13
SC16																	1	0.67	0.35	0.4	0.22
SC26																		1	0.32	0.37	0.2
MOE1																			1	0.88	0.38
MOE2																				1	0.42
HEART																					1

0.55 ≤ X
0.4 ≤ X < 0.54
0.25 ≤ X < 0.39
X < 0.25

FIG. 7

006080" 2554E 560

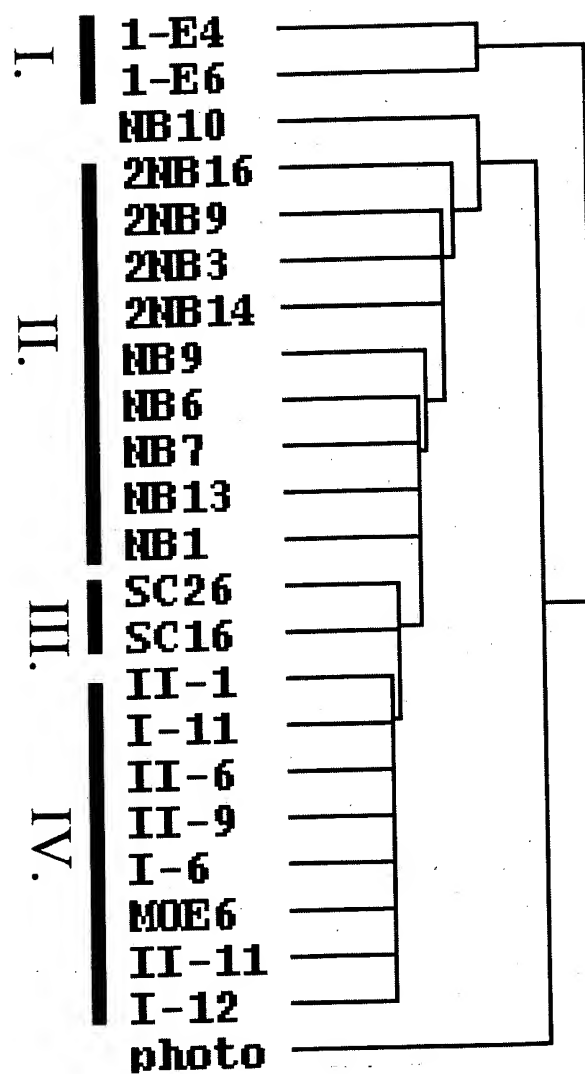
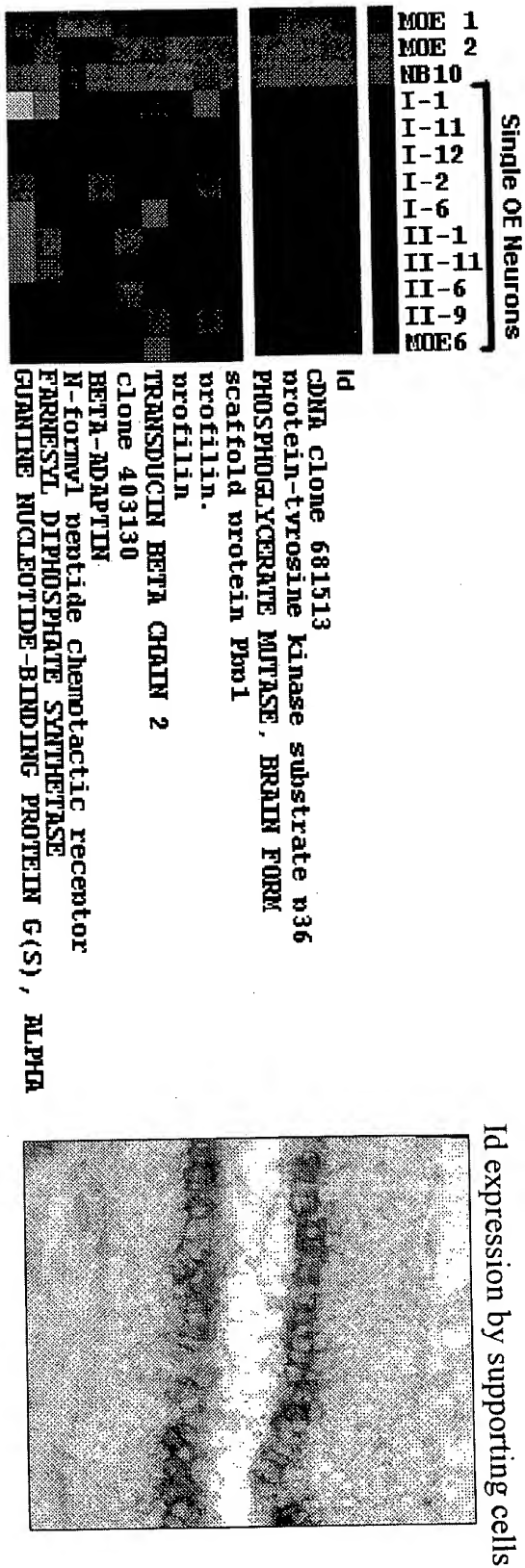


FIG. 8

Fig. 9

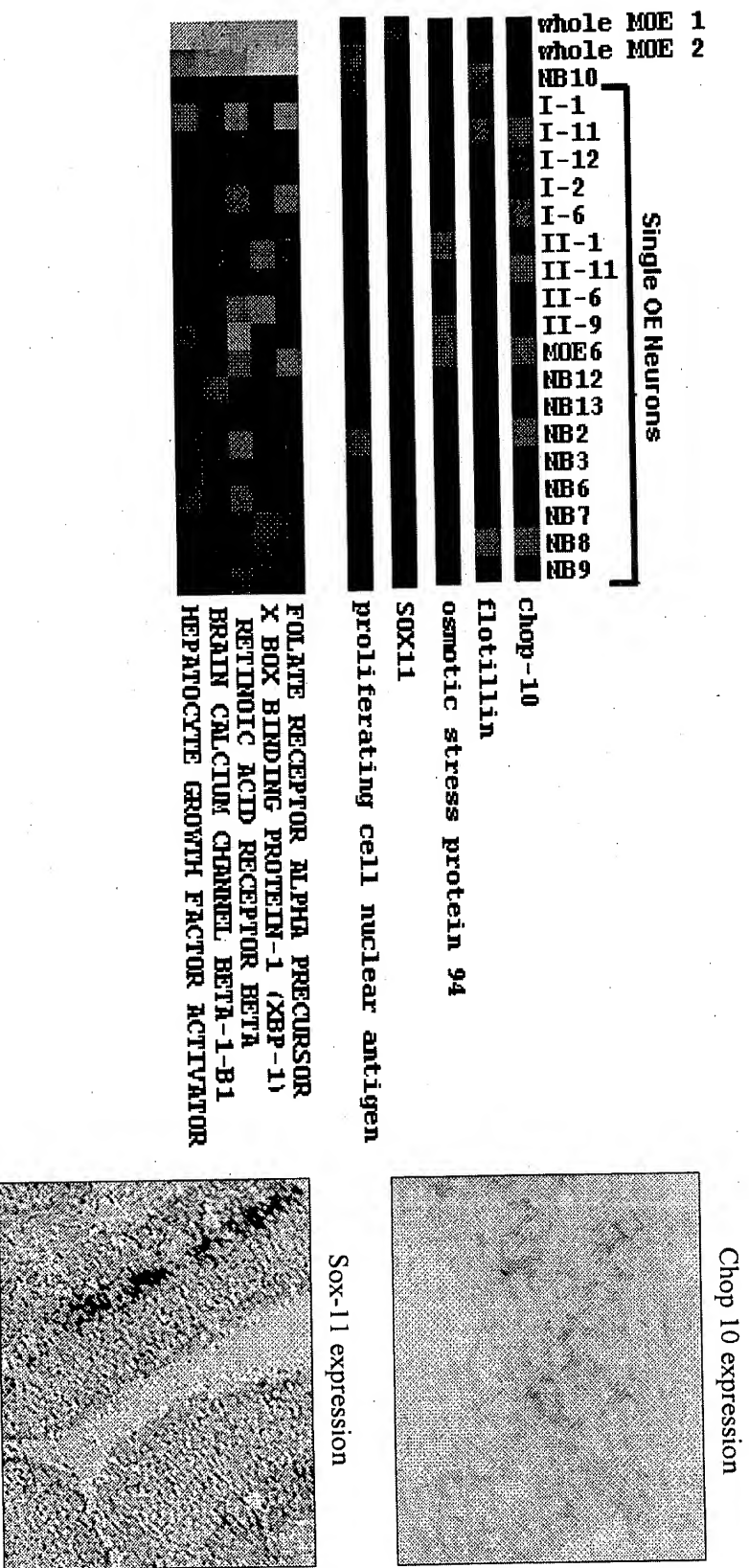
Characteristic gene cluster identifying NB10 as a supporting cell



091634352.080900

Fig. 10

Specific gene expression in individual neurons cannot be detected in transcripts from whole tissue and allows one to identify neuronal cell types



091634352.080900